

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A data receiving~~transfer~~ apparatus, comprising:

an ~~attribute~~data attribute information acquiring unit acquiring data attribute information of each data item managed by an equipment connected to a network;

*C1* ~~wherein the attribute information is included in the content of data received in a communication from the equipment;~~

a transfer selecting unit selecting a method of data transfer based on the data attribute information of each data item acquired by said data attribute information acquiring unit; and

a data receiving unit receiving data by the method of transfer selected by said transfer selecting unit.

2. (Currently Amended) The data receiving~~transfer~~ apparatus according to claim 1, wherein said data receiving unit receives data by a plurality of physical layers.

3. (Currently Amended) The data receiving~~transfer~~ apparatus according to claim 1, wherein said transfer selecting unit includes a protocol selecting unit selecting a protocol based on the data attribute information ~~of data~~ acquired by said data attribute information acquiring unit.

4. (Currently Amended) The data receiving ~~transfer~~ apparatus according to claim 1, wherein said transfer selecting unit includes a command set selecting unit selecting a command set based on the data attribute information ~~of data~~ acquired by said data attribute information acquiring unit.

C1 5. (Currently Amended) A data transfer apparatus, comprising:

~~an attribute information acquiring unit acquiring attribute information of data managed by an equipment connected to a network wherein the attribute information is included in the content of data received in a communication from the equipment;~~

a data attribute information transmitting unit transmitting data attribute information of each data item managed by its own equipment to an equipment connected to a network;

a command receiving unit receiving a command from the equipment connected to the network;

a transfer selecting unit selecting a transfer method ~~of data transfer based on the data attribute information included in the command; of data acquired by said attribute information acquiring unit;~~ and

a data transmitting unit transmitting data by the transfer method of ~~transfer~~ selected by said transfer selecting unit.

6. (Original) The data transfer apparatus according to claim 5, wherein said data transmitting unit transmits data by a plurality of physical layers.

Cl 7. (Original) The data transfer apparatus according to claim 5, wherein said transfer selecting unit includes a protocol selecting unit selecting a protocol based on the attribute information of data acquired by said attribute information acquiring unit.

8. (Original) The data transfer apparatus according to claim 5, wherein said transfer selecting unit includes a command set selecting unit selecting a command set based on the attribute information of data acquired by said attribute information acquiring unit.

9. (Previously Presented) A data transfer apparatus, comprising:

an equipment attribute information acquiring unit acquiring attribute information of an equipment connected to a network

wherein the attribute information is included in the content of data received in a communication from the equipment;

an equipment attribute information selecting unit selecting attribute information of first and second equipments among equipment attribute information acquired by said equipment attribute information acquiring unit;

a data attribute information acquiring unit acquiring attribute information of data managed by the first equipment selected by said equipment attribute information selecting unit;

CI a transfer selecting unit selecting a method of data transfer based on the attribute information of data acquired by said data attribute information acquiring unit and on attribute information of said second equipment; and

a data transfer instructing unit instructing data transfer from said first equipment to said second equipment by the transfer method selected by said transfer selecting unit.

10. (Original) The data transfer apparatus according to claim 9, wherein said transfer selecting unit selects a protocol based on the attribute information of data acquired by said data attribute information acquiring unit.

11. (Original) The data transfer apparatus according to claim 9, wherein said transfer selecting unit selects a command set based on the attribute information of data acquired by said data attribute information acquiring unit.

12. (Currently Amended) A method data transfer, comprising ~~the steps of:~~

acquiring attribute information of data managed by an equipment connected to a network wherein the attribute information is included in the content of data received in a communication from the equipment;

selecting a method of data transfer based on said acquired attribute information of data; and

receiving data by said selected method of transfer.

13. (Currently Amended) A method of data transfer, comprising ~~the steps of:~~

acquiring attribute information of data managed by an equipment connected to a network wherein the attribute information is included in the content of data received in a communication from the equipment;

selecting a method of data transfer based on said acquired attribute information of data; and

transmitting data by said selected method of transfer.

14. (Currently Amended) A method of data transfer, comprising  
~~the steps of:~~

acquiring attribute information of an equipment connected to a network wherein the attribute information is included in the content of data received in a communication from the equipment;

selecting attribute information of first and second equipments from said attribute information of equipments;

acquiring attribute information of data managed by said selected first equipment;

selecting a method of data transfer based on said acquired attribute information of data and said attribute information of said second equipment; and

instructing data transfer from said first equipment to said second equipment by said selected method of transfer.

15. (Currently Amended) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes ~~the steps of:~~

acquiring attribute information of data managed by an equipment connected to a network wherein the attribute information

is included in the content of data received in a communication from the equipment,

selecting a method of data transfer based on said acquired attribute information of data, and

receiving data by said selected method of transfer.

16. (Currently Amended) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes ~~the steps of~~

acquiring attribute information of data managed by an equipment connected to a network wherein the attribute information is included in the content of data received in a communication from the equipment,

selecting a method of data transfer based on said acquired attribute information of data, and

transmitting data by said selected method of transfer.

17. (Currently Amended) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes ~~the steps of~~

acquiring attribute information of an equipment connected to a network wherein the attribute information is included in the content of data received in a communication from the equipment,

selecting attribute information of first and second equipments from said acquired attribute information of equipments,

acquiring attribute information of data managed by said selected first equipment,

selecting a method of data transfer based on said acquired attribute information of data and said attribute information of said second equipment, and

instructing data transfer from said first equipment to said second equipment by said selected method of transfer.

18. (Previously Presented) A data transfer apparatus, comprising:

an attribute information acquiring unit acquiring attribute information of data managed by an equipment connected to a network from the equipment using a common protocol wherein the attribute information is included in the content of data received in a communication from the equipment;

a transfer selecting unit selecting a method of data transfer based on the attribute information of data acquired by said attribute information acquiring unit; and

a data receiving unit receiving data by the method of transfer selected by said transfer selecting unit.



19. (Previously Presented) The data transfer apparatus according to claim 18, wherein said attribute information acquiring unit acquires said attribute information of data as a directory information from said equipment, and

said transfer selecting unit selects the method of data transfer based on the attribute information of data selected by a user among said directory information acquired by said attribute information acquiring unit.

Cl 20. (Previously Presented) A data transfer apparatus, comprising:

an attribute information acquiring unit acquiring attribute information of data managed by an equipment connected to a network from the equipment using a common protocol wherein the attribute information is included in the content of data received in a communication from the equipment;

a transfer selecting unit selecting a method of data transfer based on the attribute information of data acquired by said attribute information acquiring unit; and

a data transmitting unit transmitting data by the method of transfer selected by said transfer selecting unit.

21. (Previously Presented) A data transfer apparatus, comprising:

an equipment attribute information acquiring unit acquiring attribute information of an equipment connected to a network from the equipment using a common protocol wherein the attribute information is included in the content of data received in a communication from the equipment;

C) an equipment attribute information selecting unit selecting attribute information of first and second equipments among equipment attribute information acquired by said equipment attribute information acquiring unit;

a data attribute information acquiring unit acquiring attribute information of data managed by the first equipment selected by said equipment attribute information selecting unit from the first equipment using said common protocol;

a transfer selecting unit selecting a method of data transfer based on the attribute information of data acquired by said data attribute information acquiring unit and on attribute information of said second equipment; and

a data transfer instructing unit instructing data transfer from said first equipment to said second equipment by the transfer method selected by said transfer selecting unit.

22. (Previously Presented) The data transfer apparatus according to claim 1, wherein the attribute information is extracted from the communication.

23. (Previously Presented) The data transfer apparatus according to claim 5, wherein the attribute information is extracted from the communication.

C 24. (Previously Presented) The data transfer apparatus according to claim 9, wherein the attribute information is extracted from the communication.

25. (Previously Presented) The data transfer apparatus according to claim 12, wherein the attribute information is extracted from the communication.

26. (Previously Presented) The data transfer apparatus according to claim 13, wherein the attribute information is extracted from the communication.

27. (Previously Presented) The data transfer apparatus according to claim 14, wherein the attribute information is extracted from the communication.

28. (Previously Presented) The data transfer apparatus according to claim 15, wherein the attribute information is extracted from the communication.

29. (Previously Presented) The data transfer apparatus according to claim 16, wherein the attribute information is extracted from the communication.

30. (Previously Presented) The data transfer apparatus according to claim 17, wherein the attribute information is extracted from the communication.

31. (Previously Presented) The data transfer apparatus according to claim 18, wherein the attribute information is extracted from the communication.

32. (Previously Presented) The data transfer apparatus according to claim 20, wherein the attribute information is extracted from the communication.

33. (Previously Presented) The data transfer apparatus according to claim 21, wherein the attribute information is extracted from the communication.

34. (New) The data receiving apparatus according to claim 1, wherein said data attribute information acquiring unit acquires the data attribute information using a common protocol.

35. (New) The data receiving apparatus according to claim 1, further comprising an equipment attribute information acquiring unit acquiring equipment attribute information of the equipment connected to the network, wherein the data attribute information is acquired for all or some of the equipments for which the equipment attribute information has been acquired.

36. (New) The data receiving apparatus according to claim 35, wherein the equipment attribute information includes at least one of a name of the equipment, a name of its function, a manufacturer's name, a processible protocol, icon information, and a current state.

37. (New) The data receiving apparatus according to claim 1, wherein the data attribute information includes at least one of a

file name, a data format, a data size, icon information, protocol information, description of contents, and a creation date.

38. (New) The data receiving apparatus according to claim 1, further comprising an attribute displaying unit displaying all or some of the equipment attribute information and/or the data attribute information.

CF 39. (New) A data receiving apparatus, comprising:

a data attribute information transmitting unit transmitting data attribute information of its own equipment to an equipment connected to a network;

a command receiving unit receiving a command from the equipment connected to the network;

a transfer selecting unit selecting a transfer method based on data attribute information included in the command; and

a data receiving unit receiving data by the transfer method selected by said transfer selecting unit.

40. (New) The data receiving apparatus according to claim 39, further comprising an equipment attribute information transmitting unit transmitting equipment attribute information of its own equipment to the equipment connected to the network.

41. (New) The data transfer apparatus according to claim 5, further comprising an equipment attribute information transmitting unit transmitting equipment attribute information of its own equipment to the equipment connected to the network.

42. (New) A data transfer apparatus, comprising:

a data attribute information transmitting unit transmitting

data attribute information of data managed by its own equipment to an equipment connected to a network;

an equipment attribute information receiving unit receiving equipment attribute information from the equipment connected to the network;

a command receiving unit receiving a command from the equipment connected to the network;

a transfer selecting unit selecting a transfer method based on data attribute information included in the command; and

a data transmitting unit transmitting data by the transfer method selected by said transfer selecting unit.

43. (New) The data transfer apparatus according to claim 42, further comprising an attribute displaying unit displaying some or

all of the equipment attribute information and/or the data attribute information.

44. (New) A data transfer apparatus, comprising:

an equipment attribute information acquiring unit acquiring equipment attribute information of an equipment connected to a network;

CF an equipment attribute information selecting unit selecting the equipment attribute information of a first and second equipments from among the equipment attribute information acquired by said equipment attribute information acquiring unit;

a data attribute information acquiring unit acquiring data attribute information of each data item managed by the first equipment selected by said equipment attribute information selecting unit;


a transfer selecting unit selecting a data transfer method based on the equipment attribute information of the second equipment and on the data attribute information of the first equipment acquired by said data attribute information acquiring unit; and

a transfer method designating unit notifying one or both of the first and second equipments of the data transfer method selected by said transfer selecting unit.



45. (New) The data transfer apparatus according to claim 44, further comprising an attribute displaying unit displaying some or all of the equipment attribute information and/or the data attribute information.

46. (New) A program product for a computer to execute a method of data transfer, wherein said method includes

 acquiring data attribute information of each data item managed by an equipment connected to a network;

selecting a method of data transfer based on the acquired data attribute information of each data item; and

receiving data by the selected method of data transfer.

47. (New) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes

acquiring data attribute information of each data item managed by an equipment connected to a network;

selecting a method of data transfer based on the acquired data attribute information of each data item; and


receiving data by the selected method of data transfer.

48. (New) A program product for a computer to execute a method of data transfer, wherein said method includes

transmitting data attribute information of each data item managed by its own equipment to an equipment connected to a network;

receiving a command from the equipment connected to the network;

selecting a transfer method based on data attribute information included in the command; and

 transmitting data by the selected transfer method.

49. (New) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes

transmitting data attribute information of each data item managed by its own equipment to an equipment connected to a network;

receiving a command from the equipment connected to the network;

selecting a transfer method based on data attribute information included in the command; and

transmitting data by the selected transfer method.

50. (New) A program product for a computer to execute a method of data transfer, wherein said method includes

transmitting data attribute information of its own equipment to an equipment connected to a network;

receiving a command from the equipment connected to the network;

selecting a transfer method based on data attribute information included in the command; and

receiving data by the selected transfer method.

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51. (New) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes

transmitting data attribute information of its own equipment to an equipment connected to a network;

receiving a command from the equipment connected to the network;

selecting a transfer method based on data attribute information included in the command; and

receiving data by the selected transfer method.

52. (New) A program product for a computer to execute a method of data transfer, wherein said method includes

transmitting data attribute information of data managed by its own equipment to an equipment connected to a network;

receiving equipment attribute information from the equipment connected to the network;

receiving a command from the equipment connected to the network;

selecting a transfer method based on data attribute information included in the command; and

transmitting data by the selected transfer method.

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53. (New) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes

transmitting data attribute information of data managed by its own equipment to an equipment connected to a network;

receiving equipment attribute information from the equipment connected to the network;

receiving a command from the equipment connected to the network;

selecting a transfer method based on data attribute information included in the command; and

transmitting data by the selected transfer method.

54. (New) A program product for a computer to execute a method of data transfer, wherein said method includes

acquiring equipment attribute information of an equipment connected to a network;

selecting the equipment attribute information of a first and second equipments from among the acquired equipment attribute information;

acquiring data attribute information of each data item managed by the selected first equipment;

selecting a data transfer method based on the equipment attribute information of the second equipment and on the acquired data attribute information of the first equipment; and

notifying one or both of the first and second equipments of the selected data transfer method.

55. (New) A computer readable recording medium recording a program for a computer to execute a method of data transfer, wherein said method includes

acquiring equipment attribute information of an equipment connected to a network;

selecting the equipment attribute information of a first and second equipments from among the acquired equipment attribute information;

acquiring data attribute information of each data item managed  
by the selected first equipment;

selecting a data transfer method based on the equipment  
attribute information of the second equipment and on the acquired  
data attribute information of the first equipment; and

notifying one or both of the first and second equipments of  
the selected data transfer method.

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